

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/002666

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 E03F 3/04, F16L 21/06**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 E03F, F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 2002004768 A (BYUN,MOO WON) 22 June 2002 See the whole document	1
A	US 4365393 A1 (MUELLER CO) 28 December 1982 See the whole document	1
A	US 3861723 A1 (WILLIS H, KUNZ) 21 January 1975 See the whole document	1
A	US 4532168 A1 (SHAW INDUSTRIES LTD) 30 July 1985 See the whole document	1

 Further documents are listed in the continuation of Box C. See patent family annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search

27 JANUARY 2005 (27.01.2005)

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